

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	M98965	Client:	Alaskan Copper Works
Date Received:	06/15/06	Project:	Metro Self Monitor, PO# M98965
Date Extracted:	06/27/06	Lab ID:	606164-01 10x
Date Analyzed:	06/27/06	Data File:	606164-01 10x.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	79	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	1,100
Nickel	1,390
Copper	1,050
Zinc	<50

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	Metro Self Monitor, PO# M98965
Date Extracted:	06/27/06	Lab ID:	I6-296 mb
Date Analyzed:	06/27/06	Data File:	I6-296 mb.018
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	86	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<5

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 06/29/06

Date Received: 06/15/06

Project: Metro Self Monitor, PO# M98965, F&amp;BI 606164

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR METALS BY EPA METHOD 200.8**

Laboratory Code: 606205-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	10.6	10.9	3	0-20
Nickel	ug/L (ppb)	15.3	15.9	4	0-20
Copper	ug/L (ppb)	3.86	3.83	1	0-20
Zinc	ug/L (ppb)	10.2	<5	74 a	0-20

Laboratory Code: 606205-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	10.6	104	50-150
Nickel	ug/L (ppb)	20	15.3	102	50-150
Copper	ug/L (ppb)	20	3.86	101	50-150
Zinc	ug/L (ppb)	50	10.2	102	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	101	70-130
Nickel	ug/L (ppb)	20	102	70-130
Copper	ug/L (ppb)	20	103	70-130
Zinc	ug/L (ppb)	50	101	70-130

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
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June 29, 2006

**DUPLICATE COPY**

**INVOICE # 06ACU0629-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M98965, F&BI 606164 - Results of testing  
requested by Gerry Thompson for material submitted on June 15, 2006.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID #(b) (6)

606164

## SAMPLE CHAIN OF CUSTODY

ME 06/15/06

AI4

Send Report To

Company

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
1758565	01	6/15/06	12:00	H2O	1											

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. Thompson

Phan Phan

ACW

FBI

6/15/06

6/15/06

1:50pm

1:50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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June 29, 2006

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 15, 2006 from the Metro Self Monitor, PO# M98965, F&BI 606164 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0629R